

SEQUENCE LISTING

<110> Chen, Shiuan
 Zhou, Dujin

<120> DRUG SCREENING USING A PROLINE-RICH NUCLEAR RECEPTOR
 CO-REGULATORY PROTEIN/NUCLEAR RECEPTOR CO-EXPRESSION
 SYSTEM

<130> 2124-311

<140> To be assigned
 <141> 2000-04-19

<150> U.S. 60/129,873
 <151> 1999-04-19

<160> 9

<170> PatentIn Ver. 2.0

<210> 1
 <211> 30
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:Sense primer.

<400> 1
 gccgaattcg gggagggcag gggatgaagtg 30

<210> 2
 <211> 39
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:Antisense
 primer.

<400> 2
 ggcgtcgacg gatactcaga ctgtggcagg gaaaccctc 39

<210> 3
 <211> 12
 <212> DNA
 <213> Homo sapiens

<400> 3
 ccaaggtcag aa 12

<210> 4
 <211> 5
 <212> PRT
 <213> Homo sapiens

<400> 4
 Leu Lys Thr Leu Leu
 1 5

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<210> 5
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 5
 Ser Asp Pro Pro Ser Pro Ser
 1 5

<210> 6
 <211> 7
 <212> PRT
 <213> Homo sapiens

<220>
 <221> MUTAGEN
 <222> (3)
 <223> This residue has been changed from a proline.

<220>
 <221> MUTAGEN
 <222> (6)
 <223> This residue has been changed from a proline.

<400> 6
 Ser Asp Ala Pro Ser Ala Ser
 1 5

<210> 7
 <211> 2061
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 ggcttcacct tctccttctc tcttcggttc tgagcgacaa gcttctagc gct atg 116
 Met
 1
 act gtc gtc tcc gtc ccg cag cgg gag ccg ctc gtc ctg ggt ggc cgc 164
 Thr Val Val Ser Val Pro Gln Arg Glu Pro Leu Val Leu Gly Gly Arg
 5 10 15
 ctt gcg ccg ctt ggc ttt tcc tcc cga ggt tac ttt ggg gcc ctc ccg 212
 Leu Ala Pro Leu Gly Phe Ser Ser Arg Gly Tyr Phe Gly Ala Leu Pro
 20 25 30
 atg gtg acc acg gct ccg cct cct tta ccc ccg atc ccg gac ccc ccg 260
 Met Val Thr Thr Ala Pro Pro Pro Leu Pro Arg Ile Pro Asp Pro Arg
 35 40 45
 gca ctg ccc ccg acc ctc ttc ctc cct cat ttc cta ggg gga gat ggc 308
 Ala Leu Pro Pro Thr Leu Phe Leu Pro His Phe Leu Gly Gly Asp Gly
 50 55 60 65

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ccg	tgt	ctg	acc	ccc	cag	cct	cgc	gct	cca	gca	gct	ctg	ccc	aac	cgc	356
Pro	Cys	Leu	Thr	Pro	Gln	Pro	Arg	Ala	Pro	Ala	Ala	Leu	Pro	Asn	Arg	
				70					75					80		
agc	ctc	gcc	gtg	gcg	gga	ggc	act	cct	cgg	gca	gcg	ccg	aag	aag	cgg	404
Ser	Leu	Ala	Val	Ala	Gly	Gly	Thr	Pro	Arg	Ala	Ala	Pro	Lys	Lys	Arg	
			85					90					95			
cga	aag	aag	aag	gtg	cgg	gcc	agc	ccc	gca	ggg	cag	ctg	ccc	agc	cgc	452
Arg	Lys	Lys	Lys	Val	Arg	Ala	Ser	Pro	Ala	Gly	Gln	Leu	Pro	Ser	Arg	
			100				105					110				
ttc	cac	cag	tac	cag	cag	cac	cgg	ccg	agt	ctg	gag	ggc	ggc	cgg	agc	500
Phe	His	Gln	Tyr	Gln	Gln	His	Arg	Pro	Ser	Leu	Glu	Gly	Gly	Arg	Ser	
	115					120					125					
ccc	gcg	acc	ggc	ccg	agc	gga	gcg	cag	gag	gtc	ccg	ggc	ccg	gcc	gcc	548
Pro	Ala	Thr	Gly	Pro	Ser	Gly	Ala	Gln	Glu	Val	Pro	Gly	Pro	Ala	Ala	
130					135					140					145	
gcc	ttg	gcc	ccg	agt	cct	gca	gcc	gca	gcc	ggc	acg	gag	gga	gcc	agc	596
Ala	Leu	Ala	Pro	Ser	Pro	Ala	Ala	Ala	Ala	Gly	Thr	Glu	Gly	Ala	Ser	
				150					155					160		
ccc	gac	ctt	gcc	ccg	ctg	cgg	ccc	gcg	gct	ccc	ggc	caa	acc	ccc	ctc	644
Pro	Asp	Leu	Ala	Pro	Leu	Arg	Pro	Ala	Ala	Pro	Gly	Gln	Thr	Pro	Leu	
			165					170					175			
agg	aaa	gag	gtt	tta	aaa	tca	aag	atg	gga	aaa	tcg	gag	aaa	att	gcc	692
Arg	Lys	Glu	Val	Leu	Lys	Ser	Lys	Met	Gly	Lys	Ser	Glu	Lys	Ile	Ala	
			180				185					190				
ctt	ccc	cat	ggc	cag	ctt	gtt	cat	ggc	ata	cac	ttg	tat	gag	caa	cca	740
Leu	Pro	His	Gly	Gln	Leu	Val	His	Gly	Ile	His	Leu	Tyr	Glu	Gln	Pro	
	195					200					205					
aag	ata	aac	aga	cag	aaa	agc	aaa	tat	aac	ttg	cca	cta	acc	aag	atc	788
Lys	Ile	Asn	Arg	Gln	Lys	Ser	Lys	Tyr	Asn	Leu	Pro	Leu	Thr	Lys	Ile	
210					215					220					225	
acc	tct	gca	aaa	aga	aat	gaa	aac	aac	ttt	tgg	cag	gat	tct	gtt	tca	836
Thr	Ser	Ala	Lys	Arg	Asn	Glu	Asn	Asn	Phe	Trp	Gln	Asp	Ser	Val	Ser	
				230					235					240		
tct	gac	aga	att	cag	aag	cag	gaa	aaa	aag	cct	ttt	aaa	aat	acc	gag	884
Ser	Asp	Arg	Ile	Gln	Lys	Gln	Glu	Lys	Lys	Pro	Phe	Lys	Asn	Thr	Glu	
			245					250					255			
aac	att	aaa	aat	tcg	cat	ttg	aag	aaa	tca	gca	ttt	cta	act	gaa	gtg	932
Asn	Ile	Lys	Asn	Ser	His	Leu	Lys	Lys	Ser	Ala	Phe	Leu	Thr	Glu	Val	
		260					265					270				
agc	caa	aag	gaa	aat	tat	gct	ggg	gca	aag	ttt	agt	gat	cca	cct	tct	980
Ser	Gln	Lys	Glu	Asn	Tyr	Ala	Gly	Ala	Lys	Phe	Ser	Asp	Pro	Pro	Ser	
	275					280					285					
cct	agt	gtt	ctt	cca	aag	cct	cct	agt	cac	tgg	atg	gga	agc	act	gtt	1028
Pro	Ser	Val	Leu	Pro	Lys	Pro	Pro	Ser	His	Trp	Met	Gly	Ser	Thr	Val	
290					295					300					305	
gaa	aat	tcc	aac	caa	aac	agg	gag	ctg	atg	gca	gta	cac	tta	aaa	acc	1076
Glu	Asn	Ser	Asn	Gln	Asn	Arg	Glu	Leu	Met	Ala	Val	His	Leu	Lys	Thr	
				310					315					320		

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ctc ctc aaa gtt caa act tagatttcag atttcagtat gtgtgtaaaa 1124
 Leu Leu Lys Val Gln Thr
 325

cataatTTTT cccatatccc tggactcttg agaaaattgg tacagaaatg gaaatttgcc 1184
 ttgttgcaac atacaattgc aaaagatgag tttaaaaaat tacatacaaa cagcttgat 1244
 tatatTTTT attttgtaaa tactgtatac catgtattat gtgtatattg ttcatacttg 1304
 agaggtatat tatagTTTT ttatgaaagt atgtattttg ccctgcccac attgcagggtg 1364
 ttttgatat atacaatgga taaattttta gtgtgtgcta aggcacatgg aagaccgatt 1424
 ttatttgcac aagggtactga gatttttttc aagaaacagc tgtcaaact caaggtgaag 1484
 atctaaatgt gaacagttta ctaatgcact actgaagttt aaatctgtgg cacaatcaat 1544
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 attcccatTT ttgctaaact caatttctgg ttttggtata tatccattcc agcttaatgc 1664
 ctctaattTT aatgccaaaca aaattgggtg taatcaaatt ttaaaataat aataatttg 1724
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 tgagccgcca tgcctggcca taatctacat tttcttacca ggagcagcat tgaggttttt 1904
 gagcatagta cttgactact ctagagggtg agacgggagc atctcttgag cctgagaagt 1964
 ggagattgca attgagctag gatcaggcca ctgcactcca gcctgggtaa cagacgctgt 2024
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<210> 8
 <211> 327
 <212> PRT
 <213> Homo sapiens

<400> 8
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 Arg Leu Ala Pro Leu Gly Phe Ser Ser Arg Gly Tyr Phe Gly Ala Leu
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 Pro Met Val Thr Thr Ala Pro Pro Pro Leu Pro Arg Ile Pro Asp Pro
 35 40 45
 Arg Ala Leu Pro Pro Thr Leu Phe Leu Pro His Phe Leu Gly Gly Asp
 50 55 60
 Gly Pro Cys Leu Thr Pro Gln Pro Arg Ala Pro Ala Ala Leu Pro Asn
 65 70 75 80
 Arg Ser Leu Ala Val Ala Gly Gly Thr Pro Arg Ala Ala Pro Lys Lys
 85 90 95
 Arg Arg Lys Lys Lys Val Arg Ala Ser Pro Ala Gly Gln Leu Pro Ser
 100 105 110

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Arg Phe His Gln Tyr Gln Gln His Arg Pro Ser Leu Glu Gly Gly Arg
 115 120 125
 Ser Pro Ala Thr Gly Pro Ser Gly Ala Gln Glu Val Pro Gly Pro Ala
 130 135 140
 Ala Ala Leu Ala Pro Ser Pro Ala Ala Ala Ala Gly Thr Glu Gly Ala
 145 150 155 160
 Ser Pro Asp Leu Ala Pro Leu Arg Pro Ala Ala Pro Gly Gln Thr Pro
 165 170 175
 Leu Arg Lys Glu Val Leu Lys Ser Lys Met Gly Lys Ser Glu Lys Ile
 180 185 190
 Ala Leu Pro His Gly Gln Leu Val His Gly Ile His Leu Tyr Glu Gln
 195 200 205
 Pro Lys Ile Asn Arg Gln Lys Ser Lys Tyr Asn Leu Pro Leu Thr Lys
 210 215 220
 Ile Thr Ser Ala Lys Arg Asn Glu Asn Asn Phe Trp Gln Asp Ser Val
 225 230 235 240
 Ser Ser Asp Arg Ile Gln Lys Gln Glu Lys Lys Pro Phe Lys Asn Thr
 245 250 255
 Glu Asn Ile Lys Asn Ser His Leu Lys Lys Ser Ala Phe Leu Thr Glu
 260 265 270
 Val Ser Gln Lys Glu Asn Tyr Ala Gly Ala Lys Phe Ser Asp Pro Pro
 275 280 285
 Ser Pro Ser Val Leu Pro Lys Pro Pro Ser His Trp Met Gly Ser Thr
 290 295 300
 Val Glu Asn Ser Asn Gln Asn Arg Glu Leu Met Ala Val His Leu Lys
 305 310 315 320
 Thr Leu Leu Lys Val Gln Thr
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<210> 9
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 <212> PRT
 <213> Homo sapiens

<400> 9
 Asn Tyr Ala Gly Ala Lys Phe Ser Asp Pro Pro Ser Pro Ser Val Leu
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Pro Lys Pro Pro Ser His Trp
 20

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